

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=8; day=26; hr=18; min=31; sec=24; ms=67; ]

=====

\*\*\*\*\*

Reviewer Comments:

<210> 32

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> var

<222> 3 4

<223> amioride binding site

<400> 32

Phe Phe Xaa Xaa Leu Leu Pro Pro Ile Ile

5

10

1) If "var" is an explanation for the Xaa's at locations 3 and 4, it is invalid. Please explain the Xaa's on the <223> line. "var" is invalid. Please indicate which amino acids they represent. Also, please indicate the explanation for "Artificial Sequence" in a separate <220>-<223> section: please give more information regarding the "amioride binding site": what is its source? Same type of response in Sequence 31.

\*\*\*\*\*

Application No: 10559097 Version No: 2.0

Input Set:

Output Set:

Started: 2008-07-22 18:38:46.540  
Finished: 2008-07-22 18:38:48.133  
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 593 ms  
Total Warnings: 6  
Total Errors: 2  
No. of SeqIDs Defined: 32  
Actual SeqID Count: 32

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (29)
W 213	Artificial or Unknown found in <213> in SEQ ID (30)
W 213	Artificial or Unknown found in <213> in SEQ ID (31)
W 213	Artificial or Unknown found in <213> in SEQ ID (32)
E 257	Invalid sequence data feature in <221> in SEQ ID (32)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (32)

## SEQUENCE LISTING

<110> CropDesign N.V.

<120> Monocotyledonous plants having improved growth characteristics  
and a method for making the same

<130> CD-097-PCT

<140> 10559097

<141> 2006-09-19

<150> EP 03076719.8

<151> 2003-06-03

<160> 32

<170> PatentIn version 3.2

<210> 1

<211> 2313

<212> DNA

<213> Oryza sativa

<400> 1

gagaagagag ttttgtagcg agctcgcgcg aatgcgaagc caaccgagag aggtctcgat	60
accaaattccc gattttctcaa cctgaattccc cccccacgt tcctcgtttc aatctgttcg	120
tctgcgaatc gaattctttg tttttttttc tctaatttta ccggaattg tcgaattagg	180
cattcaccaa cgagcaagag gggagtggat tggttgggta aagctccgca tcttgccggc	240
gaaatctcgc tctcttctct gcggtgggtg gccggagaag tcgccgccgg tgaggcatgg	300
ggatggaggt ggccggcgcg cggtggggg ctctgtacac gacctccgac tacgcgtcgg	360
tgggtgtccat caacctgttc gtgcgctgc tctgcgctg catcgtcctc ggccacctcc	420
tcgaggagaa tcgctgggtc aatgagttca tcaccgcgct catcatcggg ctctgcaccg	480
gcgtggtgat cttgctgatg accaaagggg agagctcgca cttattcgtc ttcagtgagg	540
atctcttctt catctacctc ctccctccga tcattctcaa tgcaggtttt caggtaaaga	600
aaaagcaatt cttccggaat ttcattgacg tcacattatt tggagccgtc gggacaatga	660
tatccttttt cacaatatct attgctgccg ttgcaatatt cagcagaatg aacattggaa	720
cgctggatgt aggagatttt cttgcaattg gagccatctt ttctgcgaca gattctgtct	780
gcacattgca ggctctcaat caggatgaga cacccttttt gtacagtctg gtattcgggtg	840
aagggtgttg gaacgatgct acatcaattg tgcttttcaa cgactacag aactttgatc	900
ttgtccacat agatgcccgt gtcgttctga aattcttggg gaacttcttt tatttatttt	960

tgtcgagcac	cttccttga	gtatttgctg	gattgctcag	tgcatacata	atcaagaagc	1020
tatacattgg	aaggcattct	actgaccgtg	aggttgccct	tatgatgctc	atggcttacc	1080
tttcataatat	gctggctgag	ttgctagatt	tgagcggcat	tctcaccgta	ttctttctgtg	1140
gtattgtaat	gtcacattac	acttggcata	acgtcacaga	gagttcaaga	gttacaacaa	1200
agcacgcatt	tgcaactctg	tccttcattg	ctgagacttt	tctcttctctg	tatgttggga	1260
tggatgcatt	ggatattgaa	aaatgggagt	ttgccagtga	cagacctggc	aaatccattg	1320
ggataagctc	aattttgcta	ggattgggtc	tgattggaag	agctgctttt	gtattcccgc	1380
tgtcgttctt	gtcgaacctc	acaaagaagg	caccgaatga	aaaaataacc	tgagagacagc	1440
aagttgtaat	atggtgggct	gggtgatga	gaggagctgt	gtcgattgct	cttgcttaca	1500
ataagtttac	aagatctggc	catactcagc	tgcacggcaa	tgcaataatg	atcaccagca	1560
ccatcactgt	cgttcttttt	agcactatgg	tatttgggat	gatgacaaag	ccattgatca	1620
ggctgctgct	accggcctca	ggccatcctg	tcacctctga	gccttcatca	ccaaagtccc	1680
tgcattctcc	tctcctgaca	agcatgcaag	gttctgacct	cgagagtaca	accaacattg	1740
tgaggccttc	cagcctccgg	atgctcctca	ccaagccgac	ccacactgtc	cactactact	1800
ggcgcaagtt	cgacgacgcg	ctgatgcgac	cgatgtttgg	cgggcgcggg	ttcgtgccct	1860
tctcccctgg	atcaccaacc	gagcagagcc	atggaggaag	atgaacagtg	caaagaaatg	1920
agaatggaat	ggttgatgag	gagaatacat	gtaaaatgtg	acagcaaaag	agagaaggca	1980
agttttgggt	ttgtagagtt	tggtgctgc	taatgagttg	ttgatagtgc	ctatattctt	2040
cagaacttca	gatggtgcct	caccaaggcc	taagagccag	gaggaccttc	tgataatggt	2100
tcgggatgat	tggtttggtc	tgtcaggatg	aaccctagtg	agtgacacag	ggtgatgtgc	2160
tccgacaacc	tgtaaatttt	gtagattaac	agccccattt	gtacctgtct	accatcttta	2220
gttggcgggt	gttcttttct	agttgccacc	ctgcatgtaa	aatgaaattc	tccgccaaaa	2280
tagatttggtg	tgtataataa	ttttgcttgg	ttg			2313

<210> 2  
 <211> 535  
 <212> PRT  
 <213> Oryza sativa

<400> 2

Met	Gly	Met	Glu	Val	Ala	Ala	Ala	Arg	Leu	Gly	Ala	Leu	Tyr	Thr	Thr
1				5				10							15

Ser Asp Tyr Ala Ser Val Val Ser Ile Asn Leu Phe Val Ala Leu Leu  
 20 25 30

Cys Ala Cys Ile Val Leu Gly His Leu Leu Glu Glu Asn Arg Trp Val  
 35 40 45

Asn Glu Ser Ile Thr Ala Leu Ile Ile Gly Leu Cys Thr Gly Val Val  
 50 55 60

Ile Leu Leu Met Thr Lys Gly Lys Ser Ser His Leu Phe Val Phe Ser  
 65 70 75 80

Glu Asp Leu Phe Phe Ile Tyr Leu Leu Pro Pro Ile Ile Phe Asn Ala  
 85 90 95

Gly Phe Gln Val Lys Lys Lys Gln Phe Phe Arg Asn Phe Met Thr Ile  
 100 105 110

Thr Leu Phe Gly Ala Val Gly Thr Met Ile Ser Phe Phe Thr Ile Ser  
 115 120 125

Ile Ala Ala Ile Ala Ile Phe Ser Arg Met Asn Ile Gly Thr Leu Asp  
 130 135 140

Val Gly Asp Phe Leu Ala Ile Gly Ala Ile Phe Ser Ala Thr Asp Ser  
 145 150 155 160

Val Cys Thr Leu Gln Val Leu Asn Gln Asp Glu Thr Pro Phe Leu Tyr  
 165 170 175

Ser Leu Val Phe Gly Glu Gly Val Val Asn Asp Ala Thr Ser Ile Val  
 180 185 190

Leu Phe Asn Ala Leu Gln Asn Phe Asp Leu Val His Ile Asp Ala Ala  
 195 200 205

Val Val Leu Lys Phe Leu Gly Asn Phe Phe Tyr Leu Phe Leu Ser Ser  
 210 215 220

Thr Phe Leu Gly Val Phe Ala Gly Leu Leu Ser Ala Tyr Ile Ile Lys  
 225 230 235 240

Lys Leu Tyr Ile Gly Arg His Ser Thr Asp Arg Glu Val Ala Leu Met  
245 250 255

Met Leu Met Ala Tyr Leu Ser Tyr Met Leu Ala Glu Leu Leu Asp Leu  
260 265 270

Ser Gly Ile Leu Thr Val Phe Phe Cys Gly Ile Val Met Ser His Tyr  
275 280 285

Thr Trp His Asn Val Thr Glu Ser Ser Arg Val Thr Thr Lys His Ala  
290 295 300

Phe Ala Thr Leu Ser Phe Ile Ala Glu Thr Phe Leu Phe Leu Tyr Val  
305 310 315 320

Gly Met Asp Ala Leu Asp Ile Glu Lys Trp Glu Phe Ala Ser Asp Arg  
325 330 335

Pro Gly Lys Ser Ile Gly Ile Ser Ser Ile Leu Leu Gly Leu Val Leu  
340 345 350

Ile Gly Arg Ala Ala Phe Val Phe Pro Leu Ser Phe Leu Ser Asn Leu  
355 360 365

Thr Lys Lys Ala Pro Asn Glu Lys Ile Thr Trp Arg Gln Gln Val Val  
370 375 380

Ile Trp Trp Ala Gly Leu Met Arg Gly Ala Val Ser Ile Ala Leu Ala  
385 390 395 400

Tyr Asn Lys Phe Thr Arg Ser Gly His Thr Gln Leu His Gly Asn Ala  
405 410 415

Ile Met Ile Thr Ser Thr Ile Thr Val Val Leu Phe Ser Thr Met Val  
420 425 430

Phe Gly Met Met Thr Lys Pro Leu Ile Arg Leu Leu Leu Pro Ala Ser  
435 440 445

Gly His Pro Val Thr Ser Glu Pro Ser Ser Pro Lys Ser Leu His Ser  
450 455 460

Pro Leu Leu Thr Ser Met Gln Gly Ser Asp Leu Glu Ser Thr Thr Asn

465 470 475 480

Ile Val Arg Pro Ser Ser Leu Arg Met Leu Leu Thr Lys Pro Thr His  
485 490 495

Thr Val His Tyr Tyr Trp Arg Lys Phe Asp Asp Ala Leu Met Arg Pro  
500 505 510

Met Phe Gly Gly Arg Gly Phe Val Pro Phe Ser Pro Gly Ser Pro Thr  
515 520 525

Glu Gln Ser His Gly Gly Arg  
530 535

<210> 3  
<211> 1614  
<212> DNA  
<213> Arabidopsis thaliana

<400> 3  
atgttggtatt ctctagtgtc gaaactgcct tcgttatcga catctgatca cgcttctgtg 60  
ggtgcgttga atctctttgt tgcacttctt tgtgcttgta ttgttcttgg tcatcttttg 120  
gaagagaata gatggatgaa cgaatccatc accgccttgt tgattgggct aggcactggt 180  
gttaccattt tgttgattag taaaggaaaa agctcgcac cttctcgtctt tagtgaagat 240  
cttttcttca tatatctttt gccaccatt atattcaatg cagggtttca agtaaaaaag 300  
aagcagtttt tccgcaattt cgtgactatt atgctttttg gtgctgttgg gactattatt 360  
tcttgacaaa tcatatctct aggtgtaaca cagtcttcta agaagtggga cattggaacc 420  
tttgacttgg gtgattatct tgctatttgg gccatatttg ctgcaacaga ttcagtatgt 480  
acactgcagg ttctgaatca agacgagaca cctttgcttt acagtcttgt attcggagag 540  
gggtgttga atgatgcaac gtcagttgtg gtcttcaacg cgattcagag ctttgatctc 600  
actcacctaa accacgaagc tgcttttcat cttcttggaa acttcttgta tttgtttctc 660  
ctaagtacct tgcttgggtc tgcaaccggt ctgataagtg cgtatgttat caagaagcta 720  
tactttggaa ggcactcaac tgaccgagag gttgccetta tgatgcttat ggcgtatctt 780  
tcttatatgc ttgctgagct tttcgacttg agcggatatcc tcaactgtgtt tttctgtggt 840  
attgtgatgt ccattacac atggcacaat gtaacggaga gctcaagaat aacaacaaag 900  
catacctttg caactttgtc atttcttgcg gagacattta ttttcttgta tgttggaatg 960

gatgccttgg acattgacaa gtggagatcc gtgagtgaca caccgggaac atcgatcgca 1020  
gtgagctcaa tctaattggg tctggatcatg gttggaagag cagcgttcgt ctttccgtta 1080  
tcgttttctat ctaacttagc caagaagaat caaagcgaga aaatcaactt taacatgcag 1140  
gttgtgattt ggtgggtctgg tctcatgaga ggtgctgtat ctatggctct tgcatacaac 1200  
aagtttaciaa gggccgggca cacagatgta cgcgggaatg caatcatgat cacgagtacg 1260  
ataactgtct gtcttttttag cacagtgggtg tttgggtatgc tgaccaaacc actcataagc 1320  
tacctattac cgcaccagaa cgccaccacg agcatgttat ctgatgacaa caccclaaaa 1380  
tcatacata tccctttgtt ggaccaagac tcgttcattg agccttcagg gaaccacaat 1440  
gtgcctcggc ctgacagtat acgtggcttc ttgacacggc cactcgaac cgtgcattac 1500  
tactggagac aatttgatga ctcttcatg cgaccctctt ttggaggctg tggctttgta 1560  
ccctttgttc caggttctcc aactgagaga aaccctctg atcttagtaa ggct 1614

<210> 4

<211> 538

<212> PRT

<213> *Arabidopsis thaliana*

<400> 4

Met Leu Asp Ser Leu Val Ser Lys Leu Pro Ser Leu Ser Thr Ser Asp  
1 5 10 15

His Ala Ser Val Val Ala Leu Asn Leu Phe Val Ala Leu Leu Cys Ala  
20 25 30

Cys Ile Val Leu Gly His Leu Leu Glu Glu Asn Arg Trp Met Asn Glu  
35 40 45

Ser Ile Thr Ala Leu Leu Ile Gly Leu Gly Thr Gly Val Thr Ile Leu  
50 55 60

Leu Ile Ser Lys Gly Lys Ser Ser His Leu Leu Val Phe Ser Glu Asp  
65 70 75 80

Leu Phe Phe Ile Tyr Leu Leu Pro Pro Ile Ile Phe Asn Ala Gly Phe  
85 90 95

Gln Val Lys Lys Lys Gln Phe Phe Arg Asn Phe Val Thr Ile Met Leu  
100 105 110



Phe Gly Ala Val Gly Thr Ile Ile Ser Cys Thr Ile Ile Ser Leu Gly		
115	120	125
Val Thr Gln Phe Phe Lys Lys Leu Asp Ile Gly Thr Phe Asp Leu Gly		
130	135	140
Asp Tyr Leu Ala Ile Gly Ala Ile Phe Ala Ala Thr Asp Ser Val Cys		
145	150	155 160
Thr Leu Gln Val Leu Asn Gln Asp Glu Thr Pro Leu Leu Tyr Ser Leu		
165	170	175
Val Phe Gly Glu Gly Val Val Asn Asp Ala Thr Ser Val Val Val Phe		
180	185	190
Asn Ala Ile Gln Ser Phe Asp Leu Thr His Leu Asn His Glu Ala Ala		
195	200	205
Phe His Leu Leu Gly Asn Phe Leu Tyr Leu Phe Leu Leu Ser Thr Leu		
210	215	220
Leu Gly Ala Ala Thr Gly Leu Ile Ser Ala Tyr Val Ile Lys Lys Leu		
225	230	235 240
Tyr Phe Gly Arg His Ser Thr Asp Arg Glu Val Ala Leu Met Met Leu		
245	250	255
Met Ala Tyr Leu Ser Tyr Met Leu Ala Glu Leu Phe Asp Leu Ser Gly		
260	265	270
Ile Leu Thr Val Phe Phe Cys Gly Ile Val Met Ser His Tyr Thr Trp		
275	280	285
His Asn Val Thr Glu Ser Ser Arg Ile Thr Thr Lys His Thr Phe Ala		
290	295	300
Thr Leu Ser Phe Leu Ala Glu Thr Phe Ile Phe Leu Tyr Val Gly Met		
305	310	315 320
Asp Ala Leu Asp Ile Asp Lys Trp Arg Ser Val Ser Asp Thr Pro Gly		
325	330	335

Thr Ser Ile Ala Val Ser Ser Ile Leu Met Gly Leu Val Met Val Gly  
340 345 350

Arg Ala Ala Phe Val Phe Pro Leu Ser Phe Leu Ser Asn Leu Ala Lys  
355 360 365

Lys Asn Gln Ser Glu Lys Ile Asn Phe Asn Met Gln Val Val Ile Trp  
370 375 380

Trp Ser Gly Leu Met Arg Gly Ala Val Ser Met Ala Leu Ala Tyr Asn  
385 390 395 400

Lys Phe Thr Arg Ala Gly His Thr Asp Val Arg Gly Asn Ala Ile Met  
405 410 415

Ile Thr Ser Thr Ile Thr Val Cys Leu Phe Ser Thr Val Val Phe Gly  
420 425 430

Met Leu Thr Lys Pro Leu Ile Ser Tyr Leu Leu Pro His Gln Asn Ala  
435 440 445

Thr Thr Ser Met Leu Ser Asp Asp Asn Thr Pro Lys Ser Ile His Ile  
450 455 460

Pro Leu Leu Asp Gln Asp Ser Phe Ile Glu Pro Ser Gly Asn His Asn  
465 470 475 480

Val Pro Arg Pro Asp Ser Ile Arg Gly Phe Leu Thr Arg Pro Thr Arg  
485 490 495

Thr Val His Tyr Tyr Trp Arg Gln Phe Asp Asp Ser Phe Met Arg Pro  
500 505 510

Val Phe Gly Gly Arg Gly Phe Val Pro Phe Val Pro Gly Ser Pro Thr  
515 520 525

Glu Arg Asn Pro Pro Asp Leu Ser Lys Ala  
530 535

<210> 5

<211> 2232

<212> DNA

<213> Medicago sativa

<400> 5

acgcggggaa	tccaacccat	tgtataacaa	caactaccgg	agatatataa	tatctctctc	60
ctctaaatag	aatatcgaca	gagtgactca	acaagattat	taggagtgat	aatcttccac	120
ggcagctcaa	aaacaaacaa	catccgattc	atcatcacgc	gttgctcgag	agatacttgt	180
gttgatgaga	tcagaaggtt	cttaaaatgg	acagctcaga	aacataaata	tctgggattc	240
attattacta	ctggactttg	aaatttgga	attcagcaat	aatctcaatt	tggtcttaaa	300
tctgcttttg	aaatttggtg	aggggtggacg	acatcatggc	tattgaaatg	tcttctattg	360
tttcaaaact	atcaatgtta	tccacttccg	atcatgcttc	tggtgtttct	atgaacttgt	420
ttgtggcact	tctgtgtgct	tgtattgtcc	ttggtcacat	tctcgaggag	aatcgatgga	480
tgaatgaatc	catcactgcc	cttttgattg	gtatttgac	tggtgtagtg	atgttgctgt	540
ttagtggtgg	aaaaagttcg	catattcttg	ttttcagtga	agatcttttc	tttatatacc	600
ttctgccgcc	tattatattc	aatgccgggt	ttcaagtaaa	gaaaaagcag	ttttttgtca	660
acttcatgac	tatcacatca	tttgagacta	ttggcacatt	aatatcttgt	gtcattataa	720
ccacgggtgc	tacttttgct	tttaagagga	tggatattgg	gccactggaa	atcggcgatt	780
atctagctat	tggagcaata	tttgccgcaa	cagactctgt	ttgcacattg	cagggtgctaa	840
atcaggatga	gacaccttta	ttgtatagtc	ttgtatttgg	ggaagggtgt	gtgaatgatg	900
ctacctcagt	ggttcttttc	aatgcaattc	aaagctttga	tcttaaccaa	ctgaaccctt	960
caattgcatt	gcatttcttg	ggcaacttcc	tgtatttggt	tgtagcaagc	acactccttg	1020
gcgttgtagc	aggtctgctc	agtgcctatg	ttattaaaaa	gctgtacatt	ggcaggcact	1080
ccacagatcg	tgaggttgct	cttatgatgc	taatggcata	cctctcctat	atgctggctg	1140
agttaacct	tctgagtggc	attcttaccg	tattcttttg	tggtattggt	atgtctcatt	1200
atacttggca	taatgtgacg	cagagttcaa	gaatcactac	caagcattct	tttgctacct	1260
tgtcctttgt	tgtgagatc	tttatcttcc	tttatgttgg	tatggatgcc	ctggacattg	1320
aaaaatggaa	gtttgttagt	gatagtcctg	gaacatctat	agctgcaagt	tcagtattgt	1380
tgggtcta	acttcttgg	agagcagcgt	ttgttttcc	cttatccttc	ttatccaact	1440
tgactaaaa	atcacaacat	cagaagattt	ccttcagaca	gcaagttatc	atgtgtggg	1500
ctggtcttat	gagaggtgct	gtttcaatgg	cacttgcgta	taatcagttc	accatgtcgg	1560
ggcatactca	actacgtagc	aatgcaatca	tgataaccag	caccatcact	gttgtccttt	1620
tcagcacagt	ggtgtttggt	ttgctgacta	agccactcat	aaggcttcta	ctacctcatc	1680

ctaaaatcac aagcagcatg acaaccacag aatcgactac tccaaaatca ttcattgtcc	1740
cacttctagg agattcccga gattctgaag ctgattctga aggccatgaa attcacgcgac	1800
cgaacagcct tcgtgcttta ctatcaactc caactcacac tgttcatcga ttatggcgaa	1860
agtttgatga ttcattcatg cgtcctgttt ttggtggcag aggttttggt cctgtagaac	1920
ctggctcacc aagtgaacgc aatggtaatc aatgggggtg agaaaagaag ccatgaaatg	1980
tgtaatatgt gttgtatact acgtatgatt tgtgaaaagt catgcaacgt gtgtataatg	2040
tatttattgc ataagaacct agtagtgaaa tttttcttta aaaaaaaccc tcgtagtgaa	2100
attttgattga gctgtttgag tagctagtat gagatggctt gccatctctc tgtctattat	2160
gtaaactaca atatttttta gattctctga gccattacat gtttgtgtat gtgtccaaaa	2220
aaaaaaaaaa aa	2232